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Paolo Baronti, Prashant Pillai, Vince W. C. Chook, Stefano Chessa, Alberto Gotta, Y. Fun Hu

May 2007 **Computer Communications**, Volume 30 Issue 7

Publisher: Butterworth-Heinemann

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 38

Wireless sensor networks are an emerging technology for low-cost, unattended monitoring of a wide range of environments. Their importance has been enforced by the recent delivery of the IEEE 802.15.4 standard for the physical and MAC layers and the forthcoming ...

**Keywords:** IEEE 802.15.4, Wireless sensor networks, ZigBee**2** [A spontaneous ad hoc network to share WWW access](#)

Raquel Lacuesta, Jaime Lloret, Miguel Garcia, Lourdes Peñalver

April 2010 **EURASIP Journal on Wireless Communications and Networking**, Volume 2010

Publisher: Hindawi Publishing Corp.

Full text available: [Publisher Site](#), [PDF](#) (1.09 MB)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 3, Downloads (Overall): 3, Citation Count: 0

In this paper, we propose a secure spontaneous ad-hoc network, based on direct peer-to-peer interaction, to grant a quick, easy, and secure access to the users to surf the Web. The paper shows the description of our proposal, the procedure of the nodes ...

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3 Probabilistic quorum systems in wireless Ad Hoc networks

 Roy Friedman, Gabriel Klot, Chen Avin

September 2010

**Transactions on Computer Systems (TOCS)**, Volume 28 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.16 MB)

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 185, Downloads (Overall): 185, Citation Count: 0

Quorums are a basic construct in solving many fundamental distributed computing problems. One of the known ways of making quorums scalable and efficient is by weakening their intersection guarantee to being probabilistic. This article explores several ...

**Keywords:** Distributed middleware, location service, quorums systems, random walks, wireless ad hoc networks

4 A simple mechanism for capturing and replaying wireless channels

 Glenn Judd, Peter Steenkiste

August 2005

**E-WIND '05:** Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (6.06 MB)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 247, Downloads (Overall): 2448, Citation Count: 4

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

**Keywords:** channel capture, emulation, wireless

5 Scalability and performance evaluation of hierarchical hybrid wireless networks

Suli Zhao, Dipankar Raychaudhuri

October 2009

**IEEE/ACM Transactions on Networking (TON)**, Volume 17 Issue 5

Publisher: IEEE Press  [Request Permissions](#)

Full text available:  Pdf (1.17 MB)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 125, Downloads (Overall): 183, Citation Count: 0

This paper considers the problem of scaling ad hoc wireless networks now being applied to urban mesh and sensor network scenarios. Previous results have shown that the inherent scaling problems of a multihop "flat" ad hoc wireless network can be improved ...

**Keywords:** ad hoc network, hierarchical wireless network, hybrid network, mesh network, multihop routing, performance analysis, scalability, sensor network, simulation models

6 **RaWMS - Random Walk Based Lightweight Membership Service for Wireless Ad Hoc Networks**

Ziv Bar-Yossef, Roy Friedman, Gabriel Kiliot

June 2008 **Transactions on Computer Systems (TOCS)**, Volume 26 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (2.03 MB)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 118, Downloads (Overall): 524, Citation Count: 8

This article presents RaWMS, a novel lightweight random membership service for ad hoc networks. The service provides each node with a partial uniformly chosen view of network nodes. Such a membership service is useful, for example, in data dissemination ...

**Keywords:** Ad hoc networks, membership service, random walk

7 **Research Direction for Developing an Infrastructure for Mobile & Wireless Systems: Consensus Report of the NSF Workshop Held on October 15, 2001 in Scottsdale, Arizona**

Birgitta König-Ries, Kia Makki, S. A. M. Makki, Charles E. Perkins, Niki Pissinou, Peter L. Reiher, Peter Scheuermann, Jari Veijalainen, Alexander L. Wolf, Ouri Wolfson

October 2001 **IMWS '01: Revised Papers from the NSF Workshop on Developing an Infrastructure for Mobile and Wireless Systems**

Publisher: Springer-Verlag

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

8 **Dynamic task-based anycasting in mobile ad hoc networks**

Priywish Basu, Wang Ke, Thomas D. C. Little

October 2003 **Mobile Networks and Applications**, Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [PDF](#) (518.68 KB)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 38, Downloads (Overall): 1043, Citation Count: 3

Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community ...

**Keywords:** anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

9 **Persistent personal names for globally connected mobile devices**

Bryan Ford, Jacob Strauss, Chris Lesniewski-Laas, Sean Rhea, Frans Kaashoek, Robert Morris

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation**

Publisher: USENIX Association

Full text available: [PDF](#) (1.16 MB)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 48, Downloads (Overall): 181, Citation Count: 9

The *Unmanaged Internet Architecture* (UIA) provides zero-configuration connectivity among mobile devices through *personal names*. Users assign personal names through an ad hoc device introduction process requiring no central allocation. Once ...



13 Secure incentives for commercial ad dissemination in vehicular networks

 Suk-Bok Lee, Gabriel Pan, Joon-Sang Park, Mario Gerla, Songwu Lu

September 2007 **MobiHoc '07: Proceedings of the 8th ACM international symposium on Mobile ad hoc networking and computing**

Publisher: ACM  [Request Permissions](#)

Full text available:  [PDF](#) (586.96 KB)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 98, Downloads (Overall): 852, Citation Count: 15

Vehicular ad hoc networks (VANETs) are envisioned to provide us with numerous interesting services in the near future. One of the most promising applications is the dissemination of commercial advertisements via car-to-car communication. However, due ...

**Keywords:** cooperation, incentives, security, vehicular ad hoc networks

14 A framework for supporting emergency messages in wireless patient monitoring

Upkar Varshney

November 2008 **Decision Support Systems**, Volume 45 Issue 4

Publisher: Elsevier Science Publishers B. V.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

Patient monitoring is becoming a requirement for offering a better healthcare to an increasing number of patients in nursing homes and hospitals. During the monitoring, vital signs of patients could fluctuate significantly and/or match certain undesirable ...

**Keywords:** Ad hoc networks, Patient monitoring, Performance evaluation, Wireless systems

15 Ubiquitous computing for remote cardiac patient monitoring: a survey

Sunil Kumar, Kashyap Kamohetta, Fei Hu, Mark Lifson, Yang Xiao

January 2008 **International Journal of Telemedicine and Applications**, Volume 2008

Publisher: Hindawi Publishing Corp.

Full text available:  [PDF](#) (1.10 MB)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 149, Downloads (Overall): 369, Citation Count: 4

New wireless technologies, such as wireless LAN and sensor networks, for telecardiology purposes give new possibilities for monitoring vital parameters with wearable biomedical sensors, and give patients the freedom to be mobile and still be under continuous ...

16 Manycast: exploring the space between anycast and multicast in ad hoc networks

 Cesev Carter, Seung Yi, Prashant Ratanchandani, Robin Kravets

September 2003 **MobiCom '03: Proceedings of the 9th annual international conference on Mobile computing and networking**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (170.59 KB)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 39, Downloads (Overall): 1415, Citation Count: 11

The characteristics of ad hoc networks naturally encourage the deployment of distributed services. Although current networks implement group communication methods, they do not support the needs of a mobile node that must locate one or more distributed ...

**Keywords:** ad hoc routing, manycast, service location

17 Stochastic Geometry and Wireless Networks: Volume II Applications

François Baccelli, Bartłomiej Błaszczyszyn

January 2009

**Foundations and Trends® in Networking**, Volume 4 Issue 1-2

Publisher: Now Publishers Inc.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2


This volume bears on wireless network modeling and performance analysis. The aim is to show how stochastic geometry can be used in a more or less systematic way to analyze the phenomena that arise in this context. It first focuses on medium access control ...

18 Experimental evaluation of synchronization and topology control for in-building sensor network applications

 W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy

September 2003 **WSNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.24 MB)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 88, Downloads (Overall): 1732, Citation Count: 9

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several ...

**Keywords:** synchronization, topology control, wireless sensor networks

19 Communications of the ACM: Volume 52 Issue 11

 November 2009

Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition,  Pdf (6.64 MB)

**Bibliometrics:** Downloads (6 Weeks): 59, Downloads (12 Months): 59, Downloads (Overall): 59, Citation Count: 0

20 [An economics-based negotiation scheme among mobile devices in mobile grid](#)  
[Li Chunlin, Li Layuan](#)

March 2011 **Computer Standards & Interfaces** , Volume 33 Issue 3

Publisher: Elsevier Science Publishers B. V.

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In this paper, we propose an economics-based distributed negotiation scheme among mobile devices in mobile grid. In our model, there are energy negotiation and transactions between buyer devices and seller devices. Dynamic allocation of energy resources ...

**Keywords:** Energy allocation, Mobile grid, Negotiation

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